Attendance Quiz for Lecture 2

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Is the following *subset* of R^4 also a *subspace* of R^4?

$$\{ \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} \in R^4 \,|\, x_1 \geq 0, x_2 \geq 0, x_3 \geq 0, x_4 \geq 0\} \quad .$$

Explain!

2. Find the rank of the matrix
$$\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & 6 & 8 \end{bmatrix} \quad .$$